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<110> DIXON, RICHARD A.
LIU, CHANG-JUN
DEAVOURS, BETTINA
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AND ISOFLAVONOID N
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Ala	Ile		100 Glu	Trp	Gly	Gln		105 Lys	Ser	Lys	Ile		110 His	Leu	Ile		
Dho	Cvc	115 Thr	Thr	Cor	C3.44	1/2]	120	Mot	Dro	C) v	חות	125	Та гас	GJ v	Lou		

130 135 140 Thr Lys Leu Gly Leu Arg Pro Tyr Val Lys Arg Tyr Met Met Tyr 150 155 Gln Gln Gly Cys Phe Ala Gly Gly Thr Val Leu Arg Leu Ala Lys Asp 170 Leu Ala Glu Asn Asn Lys Gly Ala Arg Val Leu Val Val Cys Ser Glu 185 Val Thr Ala Val Thr Phe Arg Gly Pro Ser Asp Thr His Leu Asp Ser 200 Leu Val Gly Gln Ala Leu Phe Gly Asp Gly Ala Ala Leu Ile Val 215 220 Gly Ser Asp Pro Ile Pro Glu Ile Glu Lys Pro Ile Phe Glu Met Val 225 230 235 Trp Thr Ala Gln Thr Ile Ala Pro Asp Ser Glu Gly Ala Ile Asp Gly 245 250 His Leu Val Glu Ala Gly Leu Thr Phe His Leu Leu Lys Asp Val Pro 265 Gly Ile Val Ser Lys Asn Ile Asp Lys Ala Leu Ile Glu Ala Phe Gln 280 Pro Leu Asn Ile Ser Asp Tyr Asn Ser Ile Phe Trp Ile Ala His Pro 295 Gly Gly Pro Ala Ile Leu Asp Gln Val Glu Glu Lys Leu Gly Leu Lys 310 315 Pro Glu Lys Met Lys Ala Thr Arg Glu Val Leu Ser Glu Tyr Gly Asn 325 330 Met Ser Ser Ala Cys Val Leu Phe Ile Leu Asp Glu Met Arg Lys Lys 340 345 Ser Ala Gln Ala Gly Leu Lys Thr Thr Gly Glu Gly Leu Asp Trp Gly 360 Val Leu Phe Gly Phe Gly Pro Gly Leu Thr Ile Glu Thr Val Val Leu 370 375 380 His Ser Val Ala Ile 385

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<212> DNA

<213> Arabidopsis thaliana

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<211> 342

<212> PRT

<213> Oryza sativa

<400> 11

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His Asp Thr Met Pro Gly Lys Tyr Val Arg Pro Glu Ser Gln Arg Pro
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Arg Leu Asp Leu Val Val Ser Asp Ala Arg Ile Pro Val Val Asp Leu 35 40 45

Ala Ser Pro Asp Arg Ala Ala Val Val Ser Ala Val Gly Asp Ala Cys
50 55 60

Arg Thr His Gly Phe Phe Gln Val Val Asn His Gly Ile Asp Ala Ala 65 70 75 80

Leu Ile Ala Ser Val Met Glu Val Gly Arg Glu Phe Phe Arg Leu Pro 85 90 95

Ala Glu Glu Lys Ala Lys Leu Tyr Ser Asp Asp Pro Ala Lys Lys Ile 100 105 110

Arg Leu Ser Thr Ser Phe Asn Val Arg Lys Glu Thr Val His Asn Trp
115 120 125

Arg Asp Tyr Leu Arg Leu His Cys Tyr Pro Leu His Gln Phe Val Pro

Asp Trp Pro Ser Asn Pro Pro Ser Phe Lys Glu Ile Ile Gly Thr Tyr 

Cys Thr Glu Val Arg Glu Leu Gly Phe Arg Leu Tyr Glu Ala Ile Ser 

Glu Ser Leu Gly Leu Glu Gly Gly Tyr Met Arg Glu Thr Leu Gly Glu 

Gln Glu Gln His Met Ala Val Asn Tyr Tyr Pro Gln Cys Pro Glu Pro 

Glu Leu Thr Tyr Gly Leu Pro Ala His Thr Asp Pro Asn Ala Leu Thr 

Ile Leu Leu Met Asp Asp Gln Val Ala Gly Leu Gln Val Leu Asn Asp 

Gly Lys Trp Ile Ala Val Asn Pro Gln Pro Gly Ala Leu Val Ile Asn 

Ile Gly Asp Gln Leu Gln Ala Leu Ser Asn Gly Lys Tyr Arg Ser Val 

Trp His Arg Ala Val Val Asn Ser Asp Arg Glu Arg Met Ser Val Ala 

Ser Phe Leu Cys Pro Cys Asn Ser Val Glu Leu Gly Pro Ala Lys Lys 

Leu Ile Thr Asp Asp Ser Pro Ala Val Tyr Arg Asn Tyr Thr Tyr Asp 

Glu Tyr Tyr Lys Lys Phe Trp Ser Arg Asn Leu Asp Gln Glu His Cys 

Leu Glu Leu Phe Arg Thr 

<210> 12

<211> 815

<212> DNA

<213> Juglans nigra

<400> 12

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Phe Asp Met Ser Gly Gly Lys Lys Gly Gly Phe Ile Val Ser Ser His

		-			gtg Val											336
					acc Thr	_	_		_			_	_	_		384
_			_	_	gtg Val	_				_	_		_	_		432
	-			-	ttg Leu 150	_					-	_				480
_	_	_			aag Lys					_	_		_	_		528
_					aaa Lys	_				-			_			576
_	_			_	cct Pro					_	_	_	_	_	_	624
		-			gcc Ala						-					672
_	_		_	_	gga Gly 230	-		_	_				_			720
		_	_		ggg Gly			_		_	_			_		768
					agt Ser										cc	815

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- <213> Juglans nigra
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- Pro Ile Ile Ser Leu Ala Gly Ile Asp Glu Val His Gly Arg Arg Thr
  20 25 30
- Glu Ile Cys Gln Lys Ile Val Glu Ala Cys Glu Asp Trp Gly Ile Phe 35 40 45
- Gln Val Val Asp His Gly Val Asp Ala Ser Leu Ile Ser Asp Met Thr 50 55 60
- Arg Leu Ala Arg Asp Phe Phe Ala Met Pro Pro Glu Glu Lys Leu Arg 65 70 75 80
- Phe Asp Met Ser Gly Gly Lys Lys Gly Gly Phe Ile Val Ser Ser His 85 90 95
- Leu Gln Gly Glu Ala Val Gln Asp Trp Arg Glu Ile Val Thr Tyr Phe
  100 105 110
- Ser Tyr Pro Ile Arg Thr Arg Asp Tyr Ser Arg Trp Pro Asp Lys Pro 115 120 125
- Glu Gly Trp Arg Lys Val Thr Glu Glu Tyr Ser Asp Lys Leu Met Gly 130 135 140
- Lys Glu Ala Leu Thr Lys Ala Cys Val Asp Met Asp Gln Lys Val Val 165 170 175
- Val Asn Tyr Tyr Pro Lys Cys Pro Gln Pro Asp Leu Thr Leu Gly Leu 180 185 190
- Lys Arg His Thr Asp Pro Gly Thr Ile Thr Leu Leu Leu Gln Asp Gln 195 200 205
- Val Gly Gly Leu Gln Ala Thr Arg Asp Gly Gly Lys Thr Trp Ile Thr 210 215 220
- Val Gln Pro Val Glu Gly Ala Phe Val Val Asn Leu Gly Asp His Gly

His Phe Leu Ser Asn Gly Arg Phe Lys Asn Ala Asp His Gln Ala Val 245 250 255

Val Asn Ser Asn Tyr Ser Arg Leu Ser Ile Ala Thr Phe Gln Asn 260 265 270